## TO DETERMINE LENGTH OF INLET TO INTERCEPT 100% OF GUTTER FLOW

	LIQUE DETERMINED					
ITEM	UNITS	DESCRIPTION	HOW DETERMINED			
Q <sub>a</sub>	c.f.s.	AMOUNT OF FLOW IN GUTTER ON ONE SIDE OF STREET.	HYDROLOGY STUDY OF AREA.			
d	ft.	DEPTH OF FLOW AT FACE OF CURB.(NOT CONSIDERING INLET DEPRESSION)	SEE CVD-DR06 OR CVD-DR07 (INTERSECTION OF Q <sub>d</sub> LINE AND GUTTER GRADE LINE WILL FALL BETWEEN d LINES. INTERPOLATE FOR VALUES.)			
La	ft.	LENGTH OF INLET WHICH WILL INTERCEPT 100% OF Qa AT GIVEN GUTTER GRADE.	CVD-DR06 AND CVD-DR07 (INTERSECTION OF Q d LINE AND GUTTER GRADE LINE WILL FALL BETWEEN d LINES. INTERPOLATE FOR VALUES.)			

## TO DETERMINE LENGTH OF INLET TO INTERCEPT A PORTION OF GUTTER FLOW

(THIS METHOD TRIES DIFFERENT LENGTHS OF INLETS TO DETERMINE HOW MUCH FLOW WILL BE INTERCEPTED BY EACH LENGTH INLET AND HOW MUCH FLOW WILL CONTINUE PAST INLET. FIRST DETERMINE  $Q_{\tt d}$  , d AND  $L_{\tt d}$  AS ABOVE.)

ITEM	UNITS	DESCRIPTION	HOW DETERMINED
L	ft.	LENGTH OF PROPOSED INLET	SELECT TRIAL LENGTH
L/L <sub>a</sub>		RATIO OF L TO La	DIVIDE L BY L <sub>a</sub>
a	ft.	AMOUNT FLOW LINE OF GUTTER IS DEPRESSED AT INLET.	STD. DWG. OF INLET BEING CONSIDERED FOR USE.
a/d		RATIO OF a TO d	DIVIDE a BY d
ଦ	c.f.s.	FLOW INTERCEPTED BY INLET OF LENGTH L.	CVD-DR05 (INTERSECTION OF L/La LINE AND a/d LINE WILL FALL BETWEEN Q/Qa LINE. INTERPOLATE FOR VALUES Q = Qa $\times$ Q/Qa
Q <sub>a</sub> -Q	c.f.s.	FLOW CONTINUING PAST INLET.	SUBTRACT Q FROM Q

## NOTE:

CVD-DR06 OR CVD-DR07 MAY ALSO BE USED BEGINNING WITH A SELECTED Q TO DETERMINE L.

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	Eliffordsummen	INLET DESIGN— CVD—
	CITY ENGINEER Date: 11-7-02	LENGIA OF INLET BY